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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/475,721	12/30/1999	MATTHEW S. REIMINK	1416.04US01	6766	
7:	590 04/24/2002				
Peter S. Dardi			EXAMINER		
4800 IDS Cente		, P.A.	HON, SC	HON, SOW FUN	
80 South 8th St MINNEAPOLI	S, MN 55402-2100		ART UNIT	PAPER NUMBER	
	•		1772	j/	
			DATE MAILED: 04/24/2002	!	

Please find below and/or attached an Office communication concerning this application or proceeding.

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,	Application No.	Applicant(s)	1 11
Advisory Action	09/475,721	REIMINK ET AL.	
Advisory Action	Examiner	Art Unit	·
	Sow-Fun Hon	1772	
The MAILING DATE of this communication a	appears on the cover sheet with	he correspondence address	
THE REPLY FILED 10 April 2002 FAILS TO PLACE Therefore, further action by the applicant is required final rejection under 37 CFR 1.113 may only be eithe condition for allowance; (2) a timely filed Notice of A Examination (RCE) in compliance with 37 CFR 1.114	to avoid abandonment of this a er: (1) a timely filed amendment ppeal (with appeal fee); or (3) a	pplication. A proper reply to a which places the application is	in
PERIOD FOR	REPLY [check either a) or b)]		
a) \square The period for reply expires $\underline{3}$ months from the mailing data	_		
b) The period for reply expires on: (1) the mailing date of this event, however, will the statutory period for reply expire lat ONLY CHECK THIS BOX WHEN THE FIRST REPLY V 706.07(f).	ter than SIX MONTHS from the mailing on WAS FILED WITHIN TWO MONTHS O	ate of the final rejection. FTHE FINAL REJECTION. See MPE	P
Extensions of time may be obtained under 37 CFR 1.136(a). The have been filed is the date for purposes of determining the period of e 37 CFR 1.17(a) is calculated from: (1) the expiration date of the short (b) above, if checked. Any reply received by the Office later than three earned patent term adjustment. See 37 CFR 1.704(b).	extension and the corresponding amount tened statutory period for reply originally s	of the fee. The appropriate extension for et in the final Office action; or (2) as se	ee under et forth in
1. A Notice of Appeal was filed on Appell 37 CFR 1.192(a), or any extension thereof (37	ant's Brief must be filed within t	he period set forth in sal of the appeal.	
2. The proposed amendment(s) will not be entered	ed because:		
(a) X they raise new issues that would require for	urther consideration and/or sea	ch (see NOTE below);	
(b) they raise the issue of new matter (see No		,,,	
(c) they are not deemed to place the applicationissues for appeal; and/or	ion in better form for appeal by	materially reducing or simplify	ing the
(d) they present additional claims without car	nceling a corresponding numbe	r of finally rejected claims.	
NOTE: see attachment to advisory action.			•
3. Applicant's reply has overcome the following re	ejection(s):		
4. Newly proposed or amended claim(s) wo canceling the non-allowable claim(s).	ould be allowable if submitted in	a separate, timely filed amer	ndment
5.☐ The a)☐ affidavit, b)☐ exhibit, or c)☐ request application in condition for allowance because	st for reconsideration has been	considered but does NOT plac	e the
6. The affidavit or exhibit will NOT be considered raised by the Examiner in the final rejection.	because it is not directed SOL	ELY to issues which were new	'ly
7. For purposes of Appeal, the proposed amendment explanation of how the new or amended claim			1
The status of the claim(s) is (or will be) as follo	ows:		
Claim(s) allowed: None.			
Claim(s) objected to: None.			
Claim(s) rejected: <u>1-3 and 5-20</u> .			
Claim(s) withdrawn from consideration:			
8. The proposed drawing correction filed on	_ is a)□ approved or b)□ di	sapproved by the Examiner.	

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10. Other: Attachment to advisory action.

9. Note the attached Information Disclosure Statement(s)(PTO-1449) Paper No(s). 9.

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Advisory Action

1. The proposed amendments in Paper # 10 (filed 04/10/02) has been considered but will not be entered because they raise new issues which would require further consideration and search, and are not deemed to place the application in better form for appeal by materially simplifying the issues for appeal or allowance. Applicant's arguments are addressed below.

2. Applicant argues that the term "rigid" is defined as being deficient or devoid of flexibility by Webster's 10th Collegiate Dictionary. Applicant argues that the composite component is flexible while the polymer is rigid, or devoid of flexibility. Since the rigid polymer covers at least a portion of the inorganic substrate, and the composite component is flexible, it follows that the inorganic substrate must be flexible, and that the portion of the rigid polymer which covers the substrate does not impede the flexibility of the substrate. Claim 3 further defines the inorganic substrate as comprising a ceramic which is normally devoid of flexibility, which appears to be a contradiction. Furthermore, Applicant argues that it is the "flexible" composite component with both the polymer and the inorganic substrate which is "flexible" in the present invention, not just the polymer portion of the component.

Applicant is respectfully advised that there is not enough structure in the present claims to distinctly define the flexible composite component in order to resolve the confusion presented by the apparent contradictions in the "rigid" and "flexible" limitations.

3. Applicant argues that Pietsch discloses flexible polymers whereas claim 1 indicates that the polymer is rigid. Applicant further argues that a rigid polymer may or may not be crosslinked, and that a crosslinked polymer may be rigid or flexible. Applicant is respectfully reminded that claim 12 recites a polymer which is from the group of polyurethanes,

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polydimethylsiloxanes and polytetrafluoroethylenes. Pietsch teaches crosslinked silicone rubber (polydimethylsiloxane) and polyurethanes ('461, column 4, lines 20-68 and column 5, lines 1-15). Since the polymer is the same, it follows that the term "rigid" as described by Applicant, is relative unless defined by a rigidity measurement, a property which would then be prima facia inherent until proven otherwise.

4. Applicant argues that the flexible elements in Pietsch involve only a polymer, that the support ring is present only away from the leaflet, and that the support ring may not flex.

Applicant is respectfully reminded that the support ring is taught to be deformable elastically, thus having an elastic limit ('461, column 1, lines 60-68). Pietsch teaches that the upper region of the commissure consists of the cusp (leaflet) material and thus the cusp material is thickened to protect against flapping over (inversion) of the cusp (leaflet). Therefore the leaflet is thicker than the commissure. The wall thickness of the leaflet can be 50-1000 microns ('461, column 2, lines 34-68). Metal and ceramics are taught to be materials used for the support ring, and hence the lower region of the commissure ('461, column 3, lines 45-55).

Any inquiry concerning this communication should be directed to Sow-Fun Hon whose telephone number is (703)308-3265. The examiner can normally be reached Monday to Friday from 9:00 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon, can be reached on (703)308-4251. The fax phone number for the organization where this application or proceeding is assigned is (703)872-9311.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-0661.

84 04/23/02

HAROLD PYON